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L1 and (combin\$ or couple\$ or chain\$)	1

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<u>L63</u>	159 and (name and offset\$)	9	<u>L63</u>
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<u>L61</u>	L60 and (name\$ and (pointer\$ or offset or off-set\$))	0	<u>L61</u>
<u>L60</u>	6826750.pn.	1	<u>L60</u>

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<a href="#"><u>L58</u></a>	L57 and (version\$ near5 (control\$ or support\$ or manag\$))	5317	<a href="#"><u>L58</u></a>
<a href="#"><u>L57</u></a>	version\$ and (dynamic\$ or run time or run-time\$ or compile time or compile-time)	48735	<a href="#"><u>L57</u></a>
<a href="#"><u>L56</u></a>	version\$ and (dynamic\$ or run time or ru-time\$ or compile time or compile-time)	48735	<a href="#"><u>L56</u></a>
<a href="#"><u>L55</u></a>	6385767.pn.	1	<a href="#"><u>L55</u></a>
<a href="#"><u>L54</u></a>	l52 and l6	0	<a href="#"><u>L54</u></a>
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<a href="#"><u>L47</u></a>	l1 and recompil\$	0	<a href="#"><u>L47</u></a>
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<a href="#"><u>L44</u></a>	l1 and (compil\$ or run\$ or execut\$)	1	<a href="#"><u>L44</u></a>
<a href="#"><u>L43</u></a>	l1 and (compil\$ near4 tim\$)	0	<a href="#"><u>L43</u></a>
<a href="#"><u>L42</u></a>	l1 and (run time or run-time or dynamic\$ or fly\$)	0	<a href="#"><u>L42</u></a>
<a href="#"><u>L41</u></a>	l1 and (second\$ same first)	0	<a href="#"><u>L41</u></a>
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<a href="#"><u>L36</u></a>	version\$ (control\$ or manage\$ or support\$) and ((overload\$ load\$) near8 resol\$)	0	<a href="#"><u>L36</u></a>
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<a href="#"><u>L23</u></a>	L22 and intelligen\$ and (user\$ near3 i/o)	1	<a href="#"><u>L23</u></a>
<a href="#"><u>L22</u></a>	6622302.pn.	1	<a href="#"><u>L22</u></a>
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<u>L16</u>	L15 and (version\$ or releas\$)	1	<u>L16</u>
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<u>L14</u>	L13 and l6	12	<u>L14</u>
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<u>L4</u>	l3 and (expert\$ or natural\$)	1	<u>L4</u>
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# 1 [Logical foundations of object-oriented and frame-based languages](#)

Michael Kifer, Georg Lausen, James Wu

July 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 4Full text available: [pdf\(7.52 MB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

We propose a novel formalism, called Frame Logic (abbr., F-logic), that accounts in a clean and declarative fashion for most of the structural aspects of object-oriented and frame-based languages. These features include object identity, complex objects, inheritance, polymorphic types, query methods, encapsulation, and others. In a sense, F-logic stands in the same relationship to the object-oriented paradigm as classical predicate calculus stands to relational programming. ...

**Keywords:** deductive databases, frame-based languages, logic programming, nonmonotonic inheritance, object-oriented programming, proof theory, semantics, typing

## 2 [Mixin layers: an object-oriented implementation technique for refinements and collaboration-based designs](#)

Yannis Smaragdakis, Don Batory

April 2002 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 11 Issue 2Full text available: [pdf\(510.43 KB\)](#)
 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A "refinement" is a functionality addition to a software project that can affect multiple dispersed implementation entities (functions, classes, etc.). In this paper, we examine large-scale refinements in terms of a fundamental object-oriented technique called collaboration-based design. We explain how collaborations can be expressed in existing programming languages or can be supported with new language constructs (which we have implemented as extensions to the Java language). We present a spec ...

**Keywords:** Collaboration-based design, component-based software, product-line architectures

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## [A hierarchy-aware approach to faceted classification of objected-oriented components](#)

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